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ATLAS.

MOLLUSCA AND SHELLS.

BY

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PLATE 40.

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PLATE 41.

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Fig. 564. *MYTILUS* *PYRIFORMIS*, lateral, and 564 *a*, dorsal views of the shell.—p. 451.

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PLATE 42.

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Fig. 570. *PECTEN* *HERICIUS*, the upper valve; 570 *a*, the lower valve; 570 *b*, edge view of the shell; 570 *c*, details of sculpture, upper valve.—p. 457.

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PLATE 45.

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PLATE 46.

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PLATE 47.

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PLATE 48.

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PLATE 50.

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PLATE 51.

Fig. 597. *ATLANTA PRIMITIA*, shell and animal, magnified; 597 *a*, the head and proboscis, much magnified; 597 *b*, natural size; 597 *c*, thoracic tube and sac; 597 *d*, section of the shell.

DETAILS. *a*. The eye, a transparent globe, resting on a dark base. *b*. Bag and tube, hanging free externally. *c*. Mouth, the tube below enlarging into a stomach. *d*. Intestine. *e*. Ovate organ, probably the heart, beating regularly when the head is exerted, but not observed in action when the head is retracted. *f*. Lamella, facing the beak. *g*. Two small plates on the lateral lamella, *h*. *i*. Fleshy antennæ. *k*. Tube, connected with the bag *b*, having vibratile ciliæ at the aperture.

Fig. 598. *ATLANTA CUNICULA*, the animal and shell, magnified; 598 *a*, the head, still more enlarged; 598 *b*, the cervical ganglion and its branches; 598 *c*, natural size.

DETAILS. *a*. Cephalic ganglion. *b*. Otolithes (?). *c*. Alimentary canal. *d*. Abdominal nerve. *e*. Nerve to the thoracic ganglion.

Fig. 599. *ATLANTA VIOLACEA*, lateral, and 599 *a*, superior views of the shell, enlarged; 599 *b*, natural size.

Fig. 600. *ATLANTA TESSELLATA*, lateral, and 600 *a*, dorsal views of the shell, enlarged; 600 *b*, natural size.

Fig. 601. *LIMACINA* (?) *CUCULLATA*, right, 601 *a*, left views of the shell; 601 *b*, view of the shell, with the animal.

Fig. 602. *LIMACINA SCAPHOIDEA*, lateral, and 602 *a*, longitudinal views of the shell and animal, magnified; 602 *b*, natural size.

Fig. 603. *HYALÆA FEMORATA*, shell, with the animal, expanded.

Fig. 604. *HYALÆA INERMIS*, shell, with the animal; 604 *a*, ventral, and 604 *b*, lateral views of the shell.

Fig. 605. *CLEODORA EXACUTA*, shell and animal, enlarged; 605 *a*, transverse section of the shell; 605 *b*, natural size.

Fig. 606. *CLEODORA PLACIDA*, front view of the shell and animal, enlarged; 606 *a*, natural size.

Fig. 607. *CLEODORA MUNDA*, front view of the animal and shell, enlarged; 607 *a*, lateral view of the same; 607 *b*, natural size.

Fig. 608. *CLEODORA FALCATA*, shell, with the animal, enlarged; 608 *a*, natural size.

PLATE 52.

Fig. 609. *CYNTHIA AMPHORA*.

Fig. 610. *PHALLUSIA VIOLACEA*.

Fig. 611. *ASCIDIA MONSTRANS*, several figures, in various attitudes.

Fig. 612. *BOLTENIA COACTA*, lateral view.

Fig. 613. *ASCIDIAN*, attached to coral from Balabac Passage, Sooloo Sea; 613 *a*, an individual, magnified. (J. D. Dana.)

Fig. 614. *BOTRYLLOID*, of a fleshy texture, from Feejee Islands; soft, fleshy, eight points to stars; stars are openings, but open only half the diameter of the star; the openings appear large, but they are mostly covered by a very thin membrane; tentacles on sides of mass. Animal contracts immediately when approached within a few inches.

The stellar openings are mouths of distinct animals, each having its œsophagus and stomach; œsophagus has transverse folds (light-yellow color) in membrane; folds are not continuous in the tube, but are interrupted in two lines traversing the tube longitudinally, and are also partially flexed in two other bisecting lines; observed two large, deep-yellow masses, which appear to indicate distinct lobes to the cavity; the stomach is attached below to the inferior or basal membrane of the mass, the whole alimentary canal being nearly or quite vertical; no stomach, as far as could be seen, to the large general mouth; 614 *a*, detached portion; 614 *b*, œsophagus and stomach to the stellar mouths. A structure of this nature, seen in mouth and œsophagus, appears to be double; forming the œsophagus-tube, or attached to its inner surface; 614 *c*, natural size. (J. D. Dana.)

Fig. 615. *EUCÆLIUM ERUBESCENS*, G., of a spongy texture, attached to coral from Sooloo Sea. (J. D. Dana.)

Fig. 616. *EUCÆLIUM* —, from coral reef, Balabac Passage, Sooloo Sea; 616 *a*, enlarged view. (J. D. Dana.)

Fig. 617. *EUCÆLIUM* —, from Feejee Islands; surface minutely papillose; spongy substance contracts and closes the mouths and star openings when irritated; 617 *a*, natural size. (J. D. Dana.)

Fig. 618. *EUCÆLIUM LIVIDUM*, G., from Feejee Islands; mass without regular form; two or three mouths in the mass; numerous stellate openings; six-pointed stars; these openings the extremities of tubes, which may be traced into the mass nearly to —; texture of frond spongy and tough; the stellar openings contract when frond is irritated, but the large mouths still remain open even when needle ran into it; 618 *a*, enlarged drawing, showing the large mouth and some of the stellate openings at the extremity of the internal tubes; 618 *b*, the frond being torn in two, showed the exterior of the internal vessels connected with the stellar openings; the upper banded portion is the œsophagus; there are ten or eleven yellow bands; the lower portion is the stomach, and is deep yellow. (J. D. Dana.)

Fig. 619. *DIACOMA* (?) —, soft and fleshy, from Feejee Islands; 619 *a*, one of the small mouths, magnified, situated around the large central mouth. (J. D. Dana.)

Fig. 620. *POLYCLINUM* —, from dead coral, Sandalwood Bay, Feejee Islands; 620 *a*, portion enlarged 25 diameters; it is of a spongy texture; a circle formed by six irregular white spots surrounds the mouth; three white points surround the mouth at the centre; these points sometimes exhibit motions; the mouth opens but very slightly, and contracts when irritated. (J. D. Dana.)

Fig. 621. *NEPHTHEIS* (?) —, dredged from about nine fathoms, Sooloo Sea; 621 *a, b*, front and lateral views of an individual, magnified.



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|--------|--------------|--------------------|----|--------|-----------------------|---------------------|-------|---------|----------------|----------------|-------|
| 1 a-c | <i>Limax</i> | <i>Columbianus</i> | G. | 5 a, b | <i>Vaginulus</i> | <i>Tamaisii</i> | For. | 10 a-c | <i>Vitrina</i> | <i>tenella</i> | G. |
| 2 a, b | — | <i>fibulatus</i> | G. | 6 a-c | <i>Atteracephorus</i> | <i>lenticulatus</i> | G. | 11 a, b | — | <i>robusta</i> | G. |
| 3 a, b | — | <i>olivaceus</i> | G. | 7 a-d | <i>Vitrina</i> | <i>Blairiensis</i> | Cuth. | 12 a-c | — | <i>maurida</i> | G. |
| 4 a | — | <i>fuliginosus</i> | G. | 8 a, b | — | <i>nitida</i> | G. | 13 | — | <i>turni</i> | Lowe. |
| | | | | 9 a | — | <i>caperata</i> | G. | | | | |



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|---------|------------------------------|---------|----------------------------|---------|--------------------------------------|
| 14 a-e | <i>Succinea rotundata</i> G. | 20 a, b | <i>Succinea canella</i> G. | 26 a, d | <i>Succinea infundibuliformis</i> G. |
| 15 a, b | — <i>exulta</i> G. | 21 a, b | — <i>exvata</i> G. | 27 a, b | — <i>pudicina</i> G. |
| 16 a, c | — <i>putamen</i> G. | 22 a, c | — <i>Magellanica</i> G. | 28 a, b | — <i>procera</i> G. |
| 17 a | — <i>vesticulis</i> G. | 23 a, b | — <i>Minnana</i> G. | 29 a, b | — <i>rusticana</i> G. |
| 18 a, b | — <i>humilis</i> G. | 24 a, c | — <i>modesta</i> G. | 30 a, b | — <i>caduca</i> Mighels. |
| 19 a | — <i>humerosa</i> G. | 25 a, b | — <i>venusta</i> G. | 31 a, c | — <i>explanata</i> G. |



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|-----------|---------------------------|-----------------------|------|--------------------------|------|------------------|---------------------|--------|---|--------------------|----|
| 32 32 a | <i>Helix nitidiuscula</i> | Sowb. | 38 | <i>Helix mutabiliana</i> | Lea. | 44 a-d | <i>Helix ziezoe</i> | G. | | | |
| 33 33 a-c | — | <i>saxatilis</i> | G. | 39 39 a | — | <i>loricata</i> | G. | 45 a-c | — | <i>spirillus</i> | G. |
| 34 34 a-c | — | <i>lyrata</i> | G. | 40 40 a-c | — | <i>germana</i> | G. | 46 a-c | — | <i>paucirillus</i> | G. |
| 35 35 a-c | — | <i>labiosa</i> | G. | 41 41 a, b | — | <i>strigosa</i> | G. | 47 | — | <i>intaminata</i> | G. |
| 36 | — | <i>Townsendiana</i> | Lea. | 42 42 a, b | — | <i>sportella</i> | G. | 48 a-c | — | <i>gradata</i> | G. |
| 37 | — | <i>Vancouverensis</i> | Lea. | 43 43 a, b | — | <i>gulosa</i> | G. | | | | |



49 a-c *Helix rubiginosa* G.
50 a-c *obelus* G.
51 a-d — *daedalea* G.
52 a-m *hirsutella* G.

52* a-c *Helix hystrix* Michels.
52* a-c — *stellula* G.
53 a, b — *tumulus* G.
54 — *tentaculum* G.
55 a-c — *Tridacna* G.

56 a-c *Helix Cressida* G.
57 a, b — *Encyclidice* G.
58 a, b — *trichilepis* Fer.
59 a-c — *cultrata* G.



60 *Helix* *pertenuis* G.
61 *a, c* *exequata* G.
62 *a, c* *subtilissima* G.
63 *a, c* *calculosa* G.
64 *a* *Tengana* Gray

65 *a* *Nanina* *irradiata* G.
66 *a* *rubescens* G.
67 *a, b* *scorpio* G.
68 *a, b* *lurida* G.
69 *a, b* *casca* G.

70 *a* *Streptaxis* *costata* Fer.
71 *a, b* *Nanina* *trivata* G.
72 *a, c* *Helix* *cryptopertusa* G.
73 *a, c* *cucurbita* G.
74 *a, b* *devia* G.





15 *Bulimus annis leporis* Brug.
16 " " *protens* Prod.
17 " " *fulguratus* Jay.
18 " " *malleatus* Jay.
19 " " *pedatus* G.

20 " *Bulimus ciliatus* G.
21 " " *chilensis* Less.
22 " " *mevensis* G.
23 " " *prunus* G.
24 " " *alatus* G.

25 " *Bulimus Shengji* Less.
26 " " *egregius* Pr.
27 " " *paucis* G.
28 " *Portula conica* G.
29 " " *zebrina* G.



90 a *Paraula pusilla* G.
 91 — *Tahitana Brug.*
 92 — *varia* Prod.
 93 — *Tahitensis* G. & A.
 94 a *Achatinella marmorata* G.
 95 — *nitidula* G.
 96 a — *alpinicola* G.
 97 a — *accincta* G.

98 a *Achatinella guttata* G.
 99 a — *corialis* G.
 100 a — *acuminata* G.
 101 — *Megaspira elata* G.
 102 — *lanceolata* Spix.
 103 a b *Vertigo* *multicostata* G.
 104 a c *Pupa* *peruviana* G.
 105 a b *Balea peregrina* G.
 106 a c *Helicina calypso* G.

107 a b *Helicina* *missiva* G.
 108 a b — *lucimosa* Michels.
 109 a c — *trichia* G.
 110 a c — *multicostata* G.
 111 a — *hercynica* G.
 112 — *Mingeneri* Gray.
 113 a c — *pallida* G.
 114 a c — *uberta* G.





116 a *Cyclotoma* *luna* G.
 117 a, b ——— *strigatum* G.
 118 a, b ——— *plicatum* G.
 119 a, ——— *obliquatum* G.
 120 a, b ——— *terebrale* G.
 121 a, b ——— *resenii* G.
 122 a ——— *callitum* G.

123 a, b *Cyclotoma* *scintum* G.
 124 a, b ——— *diatretum* G.
 125 a, b *Truncatella* *aurantia* G.
 126 a, b ——— *Vitiana* G.
 127 a, c ——— *porrecta* G.
 128 a, b ——— *restrata* G.
 130 a, b *Planorbis* *corpulentus* Say

131 a, c *Planorbis* *vermicularis* G.
 132 a, c ——— *opercularis* G.
 133 ——— *kermatoides* D'Orb.
 134 a, b *Physa* *venustula* G.
 135 ——— *revolis* Pot & Mich.
 136 a, b ——— *tabulata* G.
 137 a ——— *gibbosa* G.





138 a *Plyssa virginea* G.
 139 a *sinuata* G.
 140 a, b *reticulata* G.
 141 a *Lymnaea lepidula* G.
 142 a, b *velutata* G.
 143 a *Pendya chevata* G.

144 a *Pendya fluminea* D'Orb.
 145 a *raschata* G.
 146 a, b *Melanopsis zelandica* G.
 147 a *Aspallaria celticellaris* G.
 148 a *Amurella antipodorum* G.
 149 a, c *Melania cerolla* G.
 150 a, b *ludua* G.

151 a, b *Melania gracilis* G.
 152 a, b *Angula fulminans* G.
 153 a, b *Melania tetrica* G.
 154 a, c *Ascle* G.
 155 a, b *terpsichere* G.
 156 a, c *scipio* G.



157 a, b *Melania* *lanceolata* G.
 158 a, b ——— *scutula* G.
 159 a, c ——— *lutea* G.
 160 a, c ——— *perpinguis* Hinds.
 161 a ——— *corperosa* G.
 162 a ——— *lividifrons* G.

163 a *Melania* *bulbosa* G.
 164 a ——— *siliola* G.
 165 ——— *placifera* Lea.
 166 a *Cerithium* *sacratum* G.
 167 a, b ——— *aduncum* G.
 168 a ——— *arvatum* G.
 169 a ——— *marginatum* G.

170 a-c *Cerithium* *sordidulum* G.
 171 a, b ——— *egnum* G.
 172 a, b ——— *pusillum* G.
 173 a, b ——— *guthriei* G.
 174 a, d ——— *scutatum* G.
 175 a-c ——— *tilosum* G.



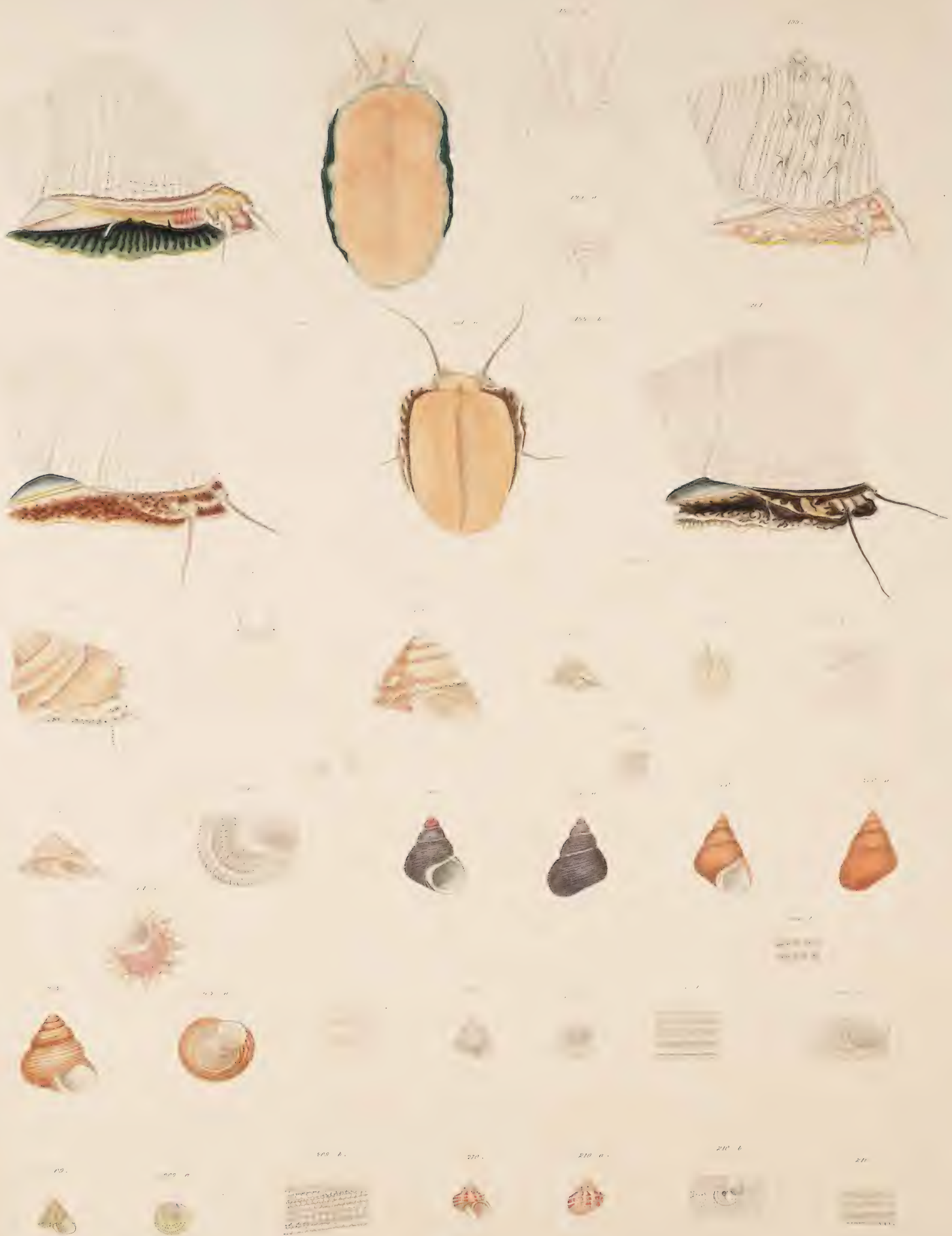
- 116 a, d *Pelec lateralis* G.
 117 a, b *Navicella Freycineti* Recluz.
 118 a ——— *porcellana* Chem.
 119 ——— *granosa* Soub.
 120 ——— *Lamarckii* Desh.
 121 ——— *Taitensis* Soutley.
 122 a ——— *caudata* Soub.

- 123 *Neritina gagates* Desh.
 124 a ——— *cernea* L.
 125 a ——— *rugosa* young Recl.
 126 a ——— "adult "
 127 a, c ——— *cholerica* G.
 128 a ——— *chrysocella* G.
 129 ——— *caltra* Gray.
 130 a, b ——— *siderica* G.

- 131 a *Neritina pereata* G.
 132 a, b ——— *aniena* G.
 133 ——— *undata* Desh.
 134 a *Nerita albicella* L.
 135 a ——— *exassa* G.
 136 a ——— *undata* L.
 137 a ——— *masiva* G.

Drawn by J. DeKay.

H. G. Norton Sc.



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|----------|--------------|---------------------|-------|----------|----------------|--------------------|----|----------|----------------|-------------------|----|
| 193 a-c | <i>Turbo</i> | <i>setosus</i> | Gmel. | 202 a, b | <i>Turbo</i> | <i>centraginus</i> | G. | 206 a, b | <i>Trechus</i> | <i>texturatus</i> | G. |
| 199 a, b | — | <i>argyrestemus</i> | L. | 203 a-c | — | <i>sirius</i> | G. | 207 a, b | — | <i>ligatus</i> | G. |
| 200 | — | <i>sparverius</i> | Gmel. | 204 a-c | — | <i>laciniatus</i> | G. | 208 a-c | — | <i>pupillus</i> | G. |
| 201 a | — | <i>pethelatus</i> | L. | 205 a, b | <i>Trechus</i> | <i>prunus</i> | G. | 209 a-c | — | <i>juvenculus</i> | G. |
| | | | | 210 a-c | | <i>gradatus</i> | G. | | | | |



211 *Trechus ater* Lessen.
 212 a — *niger* Gray.
 213 — *Araneum* Wrb.
 214 — *maius* Jans.
 215 a, b — *caudatus* G.

216 a, c *Trechus elsus* G.
 217 a, c — *acinesus* G.
 218 a, c — *amoenus* G.
 219 a, c — *spureus* G.
 220 a — *circumsutus* G.
 221 a, c — *hiematus* G.

222 a, c *Trechus retellinus* G.
 223 a, c — *ochroleucus* G.
 224 a, c — *atropurpureus* G.
 225 a, c — *instructus* G.
 226 a, c *Sclerium egeum* G.



227 a *Pemphicium squamigerum* Koch.
 228 a c *Margarita Magellanica* G.
 229 a c *conica* D'Orb.
 230 a *persica* G.
 231 a b *Lucina carinata* G.
 232 a *Littorina grandulosa* Chem.
 233 a *pyramidalis* Quoy.

234 a *Littorina obesa* Swab.
 235 a, b *plena* G.
 236 a *patula* G.
 237 a c *lapida* G.
 238 a, b *acuminata* G.
 239 a, b *caliginosa* G.
 240 a *scutulata* G.

241 *Melampus mucronatus* G.
 242 a
 243 a, b *Scalaria testacea* G.
 244 a, b *gracilenta* G.
 245 a, b *Stilifer acicula* G.
 246 a
 247 a *Halotis crispata* G.



249 a *Stomatella tumida* G.
 250 a, b ——— *decolorata* G.
 251 a, b *Planaxis lineolatus* G.
 252 a *Littorpa decussata* G.
 253 a *Natica Lewisii* G.
 254 a ——— *caurina* G.

255 a *Natica dilecta* G.
 256 a ——— *algida* G.
 257 a ——— *soluta* G.
 259 a-c *Sigaretus antarcticus* Couth.
 260 a, b ——— *protenuis* Couth.
 261 a-c *Rissoia ambigua* G.

262 a *Pyramidella*
 263 a, b *Tornatella bullata* G.
 264 *Bulla bifasciata* Mart.
 265 a-d ——— *diaphana* Couth.
 266 a ——— *rubiginosa* G.
 267 a ——— *parallela* G.



- 268 *Aplysia pulmonica* G.
269 a *Bursatella laciniolata* Couth.
270 a, b *Stelecheilus lineolatus* G.
271 — *quercinus* G.
272 a *Janthina exigua* Lam.
273 — *virgatus*

- 274 a, b *Trichotropis pusillus* G.
275 — *cancellata* Hind's spec.
276 a *Pyrala deformis* Lam.
277 a, b *Fusus beversianus* Pallas.
278 — *laciniatus* Martyn
279 a, b — *crispus* G.
280 — *decolor* Phil.

- 281 a *Fusus plumbeus* Phil.
282 a, b — *viratus* Couth.
283 a — *incisus* G.
284 a, b — *tidicula* G.
285 a, b — *orphicus* G.
286 a, b — *sulcatus* G.

Drawn by J. Doughton
& J. P. Gauthony

J. H. Arnold Sc.





287 a *Trochus tintinnus* G.

288 a *Monoceras imbricatum* Lam.

289 *Turbinella amplastre* Kien.

290 a *ceruigera* Lam.

291 *Turbinella armata* Bred.

292 *Triton variegatum* Lam.

293 — *anus* Lam.

294 a — *distertum* Lam.

295 *Triton nederum* Lam.

296 a, b — *Brasilianum* G.

297 a, b — *mandam* G.

298 a — *convallatum* Lam.



- | | | | | | | | | | | | | |
|-----|----------------|------------------|--------------------|-------|----------------|--------------------|-------------------|----------|-----------------|------------------|--------------------|-------|
| 299 | <i>Ranella</i> | <i>bulonia</i> | Gm. | 306 | <i>Purpura</i> | <i>violacea</i> | Kien. | 313 a, b | <i>Mangelia</i> | <i>cithara</i> | G. | |
| 300 | — | <i>gyrinus</i> | L. | 307 | — | <i>arachnoides</i> | Lam. | 314 a, b | <i>Terebra</i> | <i>crenulata</i> | L. | |
| 301 | — | <i>vestillum</i> | Sowb. | 308 | — | <i>clathrata</i> | Lam. | 315 | — | <i>babylonia</i> | Lam. | |
| 302 | u | — | <i>ventricosa</i> | Bred. | 309 a | — | <i>teniata</i> | Perris. | 316 | — | <i>levigata</i> | Gray. |
| 303 | u | <i>Purpura</i> | <i>elongata</i> | Quoy. | 310 a | — | <i>estrina</i> | G. | 317 | — | <i>subulata</i> | L. |
| 304 | u | — | <i>inherculata</i> | Bl. | 311 a | <i>Pleurotoma</i> | <i>tigrina</i> | Lam. | 318 | — | <i>cerulescens</i> | Lam. |
| 305 | u | — | — | — | 312 | u | <i>semiculera</i> | G. | | | | |



- | | | | | | |
|---------|----------------------------|---------|---------------------------|---------|--------------------------------|
| 319 a | <i>Buccinum velatum</i> G. | 327 a b | <i>Nassa cinetella</i> G. | 336 a | <i>Nassa lilacina</i> G. |
| 320 a | — <i>funereum</i> G. | 328 a b | — <i>casta</i> G. | 337 a b | <i>Columbella gansopata</i> G. |
| 321 a | — <i>fissatum</i> G. | 329 a b | — <i>acinesa</i> G. | 338 a c | — <i>valga</i> G. |
| 322 a | — <i>torresianum</i> G. | 330 a b | — <i>paupera</i> G. | 339 a b | — <i>castanea</i> G. |
| 324 a | <i>Nassa masina</i> G. | 331 a | — <i>mendica</i> G. | 341 a | — <i>medicaria</i> L. |
| 325 a b | — <i>lurida</i> G. | 332 a | — <i>rubricata</i> G. | 342 | — <i>ligula</i> DuRoi |
| 326 a c | — <i>curta</i> G. | 333 | — <i>maricata</i> Quey. | 343 | <i>Mitra filosa</i> Bern |
| | | 334 | — <i>granulosa</i> Kien. | | |



341 a *Mitra adasta* Lam.
 342 bis — *ambigua* Sw.
 343 — *annulata* Sw.
 346 a — *virgata* Reeve.
 347 — *maculosa* "
 348 — *nodosa* Sw.

349 *Mitra elegans* Reeve.
 350 *crispata* Ch.
 351 a, b *capitata* G.
 352 a *vitellina* G.
 353 a *fidicula* G.
 354 a *rorata* G.

355 a *Mitra cephalina* G.
 356 a, b *encrasta* G.
 357 *Tritia Magellanica* Gm.
 358 *ancilla* Soland.
 359 *Mele Brederipii* Gray.
 360 a *Phos varicosus* G.



361 *Conus vexillum* Mart.
 362 a — *miliaris* Brug.
 363 a — *spensalis* Brug.
 364 a — *males* L.
 365 — *nanus* Bred.
 366 — *minimus* L.
 367 a — *dilectus* G.

368 *Conus*
 369 *Cyprea testudinaria*.
 370 a — *reticulata* Martine.
 371 a — *fimbriata* Gmel.
 372 a — *caurica* L.
 373 a — *asellus* L.
 374 a — *peraria* L.

376 *Cyprea Humphreysii* Gray.
 379 — *obvelata* Lam.
 380 *Oliva carneola* Gmel.
 381 a, b *Peronia*
 382 a — *indolens* Couth.
 383 a, b — *irrorata* G.
 384 a — *acinesa* G.

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 & J. P. Couthouy.

W. G. Newton Sc.

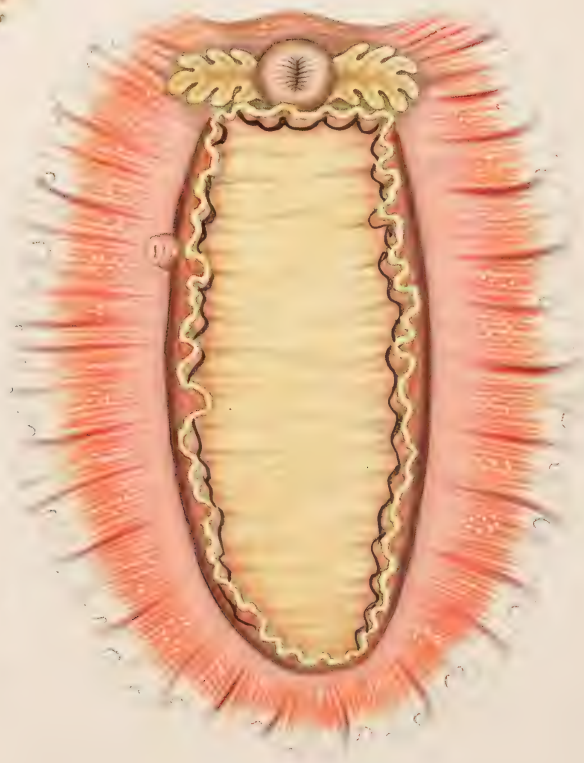
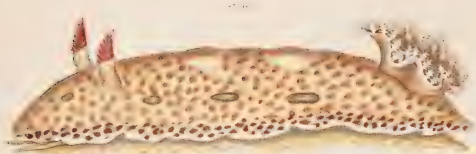


- 385 a *Peronia corpulenta* G.
 386 a-c ——— *marginata* Couth.
 387 a-c *Doris vermicelli* G.
 388 a-c ——— *plumulata* Couth.

- 389 a-d *Doris luteola* Couth.
 390 a-c ——— *smaragdina* G.
 391 a ——— *petechialis* G.
 392 a, b ——— *filicina* G.

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J. H. Arnold Sc.



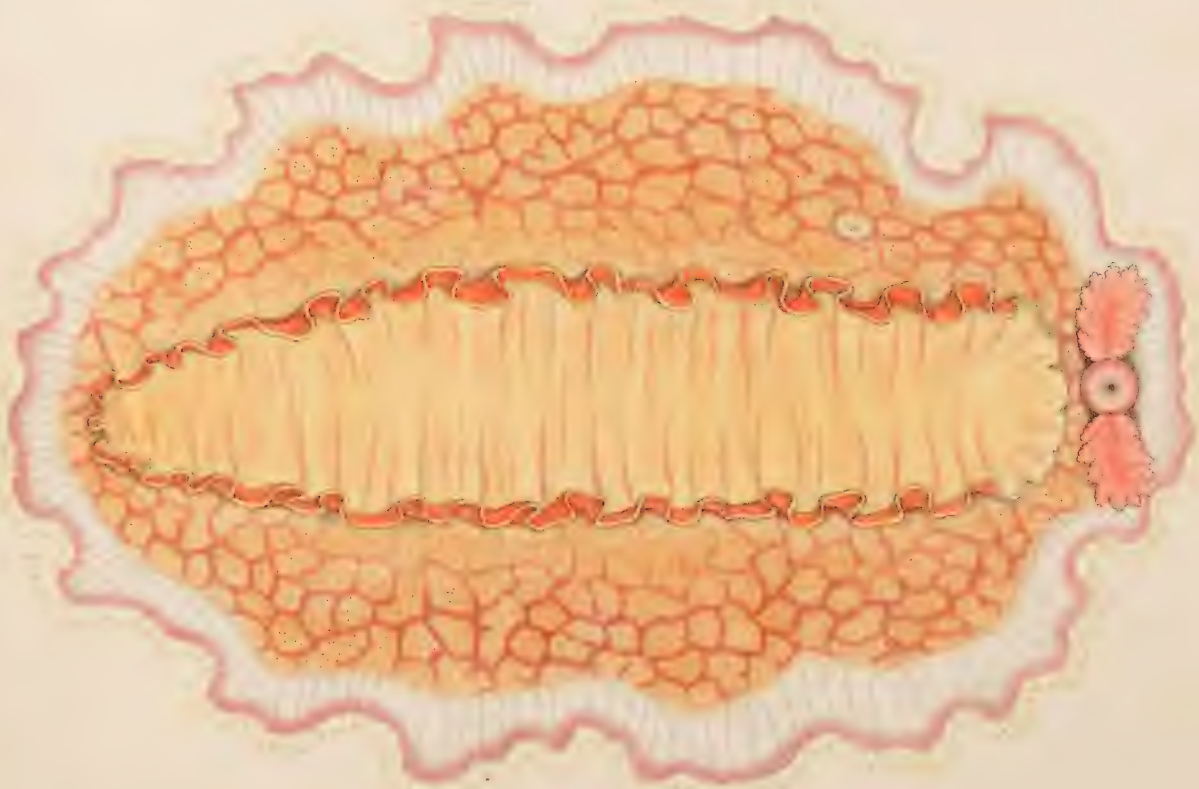
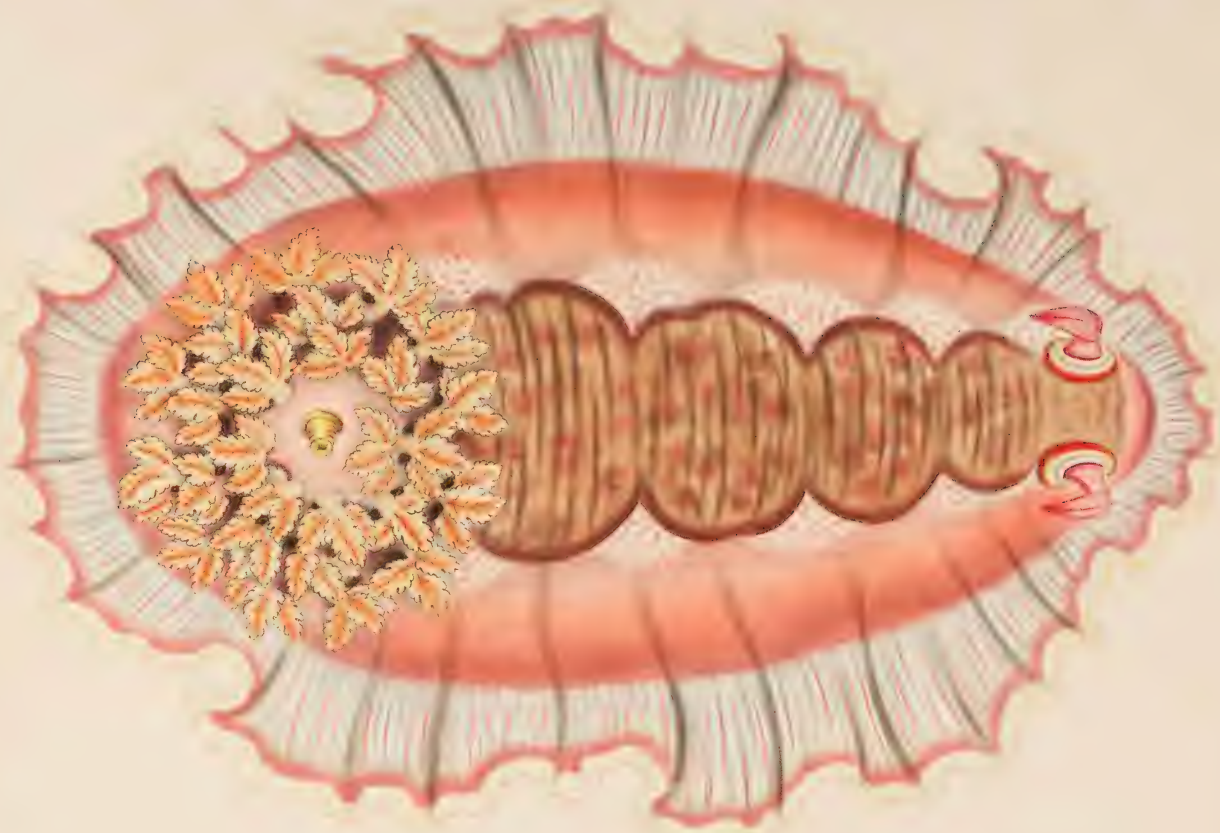
393 a-c *Doris cerebralis* G.
394 a — *aurata* G.

395 a, b *Doris spiraculata* G.
396 a-c — *superba* G.

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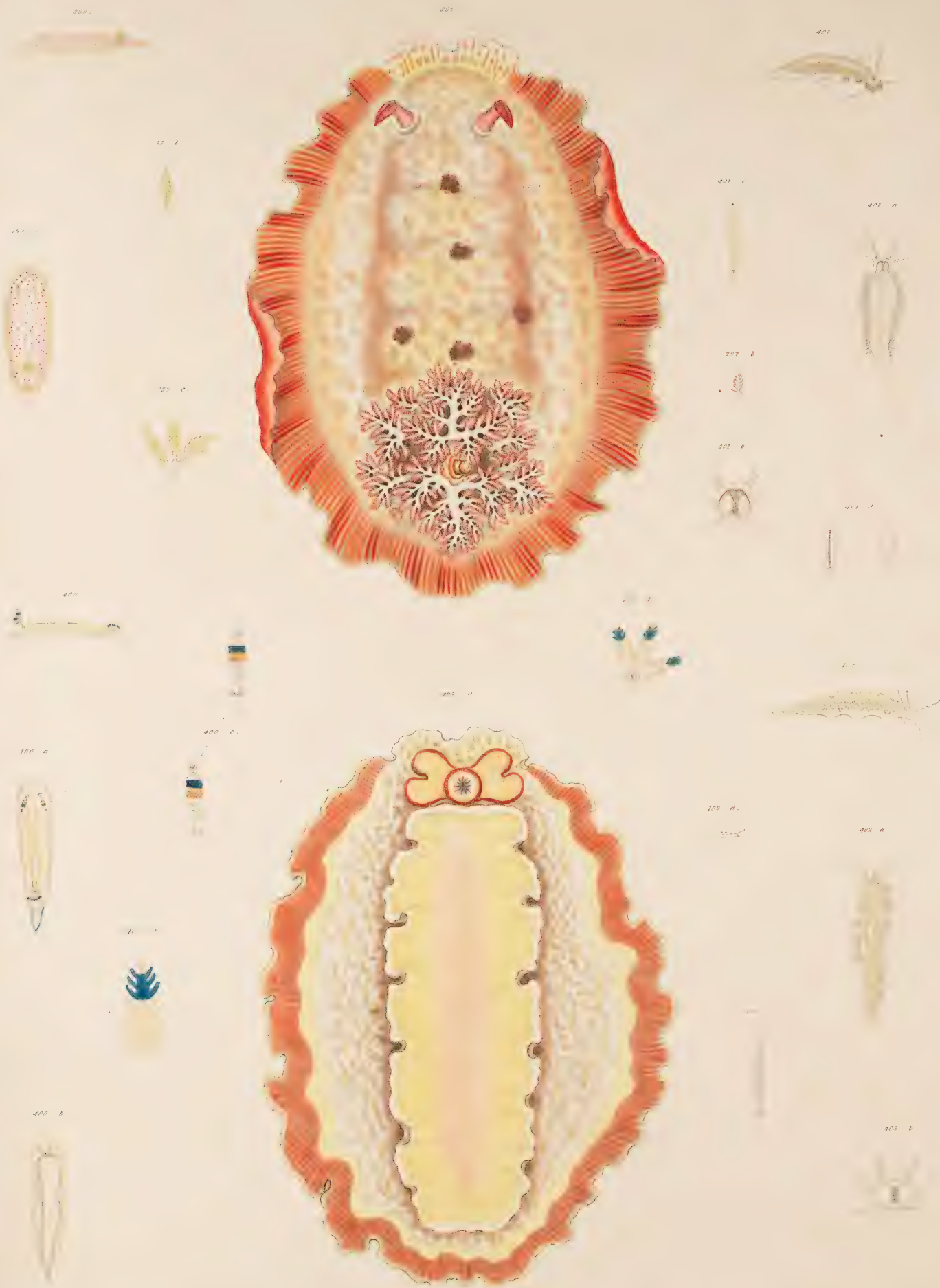


298 a *Isonychia sumptuosa* G.

Drawn by J. Grayson.

J. H. Arnold Sc.





397 a, b. *Deris cardinalis* G.
399 a-c — *aspersa* G.

402 a-c *Eolis cyanella* Couth.

400 a-e *Deris dorsalis* G.
401 a-d *Eolis attenuata* Couth.



- 403 a-f *Tritonia cucullata* Cuth.
 404 a, b *Chloraea leonina* G.
 405 a *Elysia lobata* G.

- 406 a *Diphyllidia rubida* G.
 407 a-c *Placobranchus xanthobaptus* G.
 408 a *Umbrella Indica* Auct.

Drawn by J. Drayton.

W. H. Dall, Jr.



410 *Chiton* *Zelandicus* Quoy
 411 a, d — *castaneus* Couth.
 412 a, d — *punicus* Couth.
 413 a, d — *viridulus* G.
 414 a — *jaspideus* G.
 415 — *atratus* Sowb.

416 *Chiton* *lineolatus* Fremb.
 417 — *disjunctus* Fremb.
 418 a, b — *asperimus* Couth.
 419 a, b — *pruinosus* G.
 420 a, b — *violaceus* Quoy.
 421 — *Janeirensis* Sowb.

422 *Chiton* *Peruvianus* Lam.
 423 a — *interstinctus* G.
 424 a — *lignosus* G.
 425 a, b — *setiger* Kütz.
 426 a, b — *vespertinus* G.
 427 — *Cochimbensis* Fremb.

Drawn, by J. Drayton.

W. H. Douglas Sc.



428 a *Chiton frutescens* G.
 429 a *Chitonellus fasciatus* Quey
 430 *Chiton jugosus* G.
 431 a — *platessa* G.
 432 a — *incanus* G.

433 a, b *Chiton dentiens* G.
 434 a, b — *confusus* G.
 435 a, b — *petaloideus* G.
 436 — *muscosus* G.
 437 a — *quercinus* G.
 439 a, b *Patella piperata* G.

440 a, c *Patella Panamensis* G.
 441 a, b — *illuminata* G.
 442 a — *cymbalaria* Lam.
 443 a — *terringina* Wood.
 444 a — *decurata* Gmel.



443 a, b *Patella imbricata* G.
 446 a, b — *lucinea* G.
 447 a-d — *cinnamomea* G.
 448 a, b — *citrullus* G.

449 a-c *Patella sagittata* G.
 450 a, b — *araneosa* G.
 451 — *argentea* G.
 452 a, b — *talcosa* G.

453 a-c *Lottia cymbiata* G.
 454 a — *instabilis* G.
 455 a-c — *pinctadina* G.
 456 a, b — *scabra* G.



457 a, b *Lentia textilis* G.
 458 a — *conica* G.
 459 a, b — *viridula* Lam.
 467 a, b *Siphonaria crenata* G.

460 a *Lentia zebrina* Lessen
 461 a, b — *onychina* G.
 462 a, b *Siphonaria lateralis* Conth.
 463 a, b — *normalis* G.

464 a, b *Siphonaria Lessoni* Blain.
 465 a, b — *antarctica* Conth.
 466 a, b — *inculta* G.
 467 a, b — *lupida* G.
 468 a, b — *cornuta* G.
 469 a, b — *normalis* G. H.B. D. agul. N.



- 169 a *Pissurella picta* Lam.
 170 ———
 471 a, b ——— *cratibia* G.
 472 a-c ——— *verna* G.
 473 a, b ——— *cecidens* G.

- 474 a-c *Pissurella cruciata* G.
 475 a-c *Rimula cucullata* G.
 476 a-c ——— *galeata* G.
 477 a-c ——— *senica* D'rb.
 478 a-c ——— *cegnata* G.



- | | | | | | | | | |
|----------|---------------------|------------------------|----------|-------------------|-----------------------|---------|-------------------|-------------------|
| 480 a, b | <i>Crepidula</i> | <i>nummaria</i> G. | 485 a | <i>Calyptraea</i> | <i>pulex</i> D'Orb. | 491 a-c | <i>Emarginula</i> | <i>lingula</i> G. |
| 481 a-c | — | <i>lingulata</i> G. | 486 a-d | <i>Capulus</i> | <i>sagittifer</i> G. | 492 a-c | — | <i>essea</i> G. |
| 482 a, b | — | <i>rostriformis</i> G. | 487 a-d | <i>Calyptraea</i> | <i>chlorina</i> G. | 493 a-c | — | <i>aspera</i> G. |
| 483 a-c | <i>Leptocentrus</i> | <i>madreporum</i> G. | 488 a-c | — | <i>radiosa</i> G. | 494 a-c | — | <i>cinerea</i> G. |
| 484 a, b | <i>Calyptraea</i> | <i>fastigiata</i> G. | 489 a, b | <i>Fileopsis</i> | <i>crystallina</i> G. | 495 a-c | <i>Ancylus</i> | <i>aduncus</i> G. |
| | | | 490 a-c | <i>Hippomix</i> | <i>imbricata</i> G. | | | |



198 a, b *Mya precisa* G.
 500 a, b *Pandora cistula* G.
 501 a, b *Solen sicarius* G.

505 a, b *Macra marida* G.

502 a, b *Solen scalprum* G.
 503 a, b *Macra delata* G.
 504 a, b — *cuneata* G.

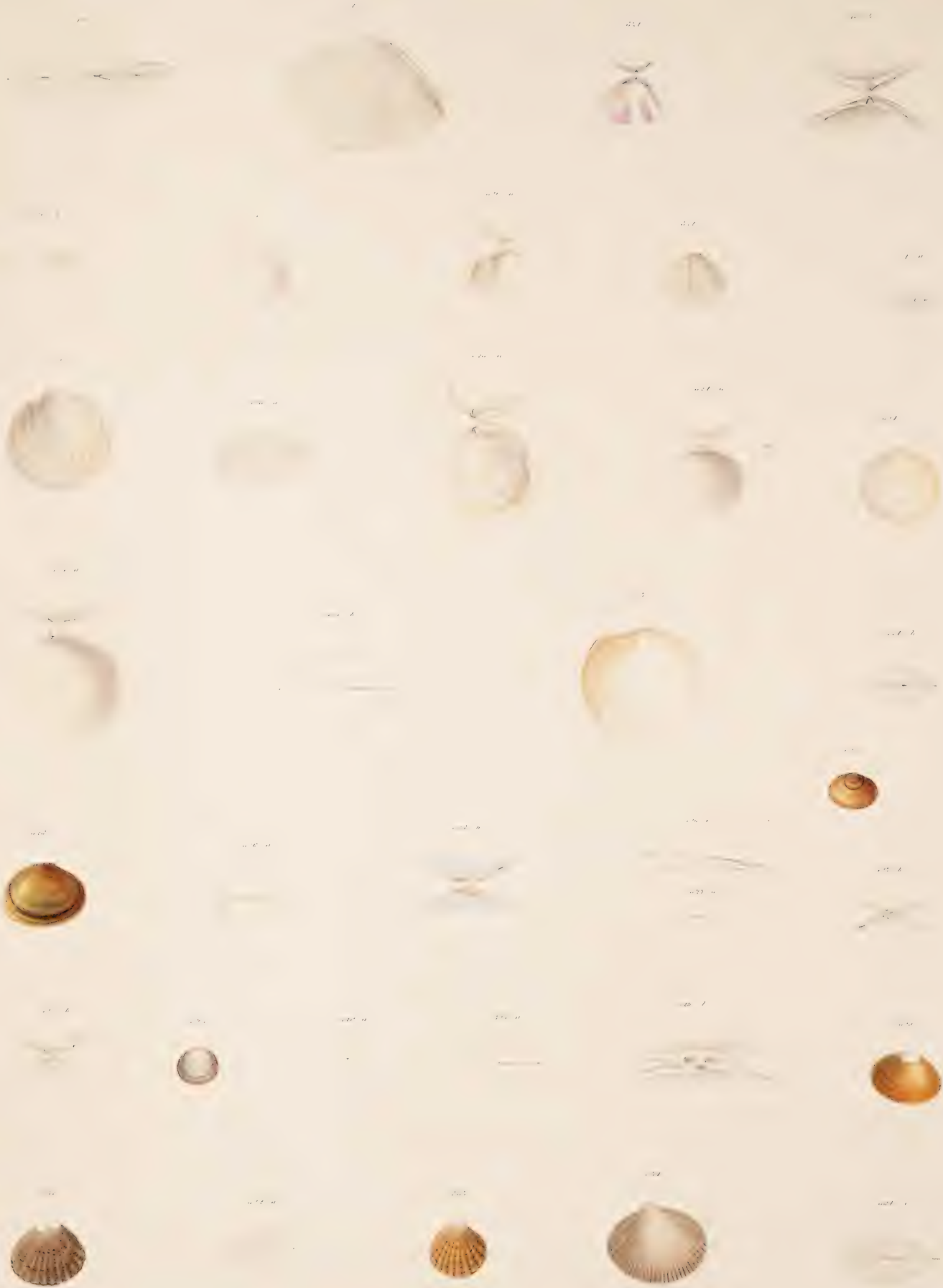


506. a b *Mactra filicata* G.
 507 a b *Panopea generosa* G.
 508 a b *Lutraria capax* G.



- 509 a, b *Ostrea bracteata* G.
 510 a, b — *Brasiliense* G.
 511 a, b *Mesodesma mundum* G.
 512 a, b *Amphidesma croceum* G.
 513 a, b *Psammobia florida* G.

- 514 a, b *Tellina lutea* G.
 515 a, b — *compta* G.
 516 a-c — *perula* G.
 517 a, b — *exulta* G.
 518 a, b — *tithenia* G.



529 a b *Tellina concentrica* G.
 530 a b *Donax pallidus* G.
 531 a — *inertus* G.
 532 a b — *crecatus* G.
 533 a b *Lucina ramulosa* G.

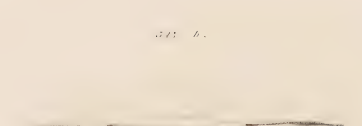
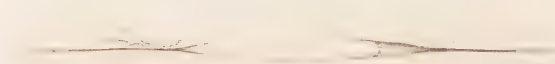
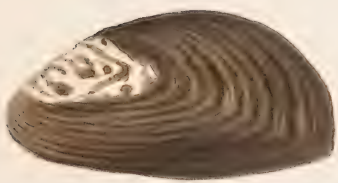
534 a b *Lucina inculta* G.
 535 a b — *resicula* G.
 536 a b *Cyebas egregia* G.
 537 a b — *patella* G.
 538 a b — *lenticula* G.

539 a b *Cyrena debilis* G.
 540 a *Cardita ventricosa* G.
 541 — *prevora* G.
 542 a *Cardium blandum* G.



- 535 a, b *Cyprina rosea* G.
 536 a *Arthonis lambata* G.
 537 a *Unio laticosta* G.
 538 a, b *Unio rigida* G.

- 539 a-c *Nucula sulcata* G.
 540 a, b *Unio dorsuensis* G.
 541 a-c *Unio viverrinus* G.
 542 a-c *Unio latulatus* G.

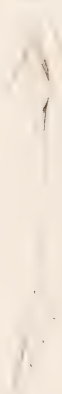


543 a, b *Unio presagus* G.
544 a, b *limicola* G.
545 a *Musmodonta pilata* G.

546 a, b *Anodonta cegnata* G.
547 a, b *liminalis* G.
548 a, b *pulchra* G.

Drawn by J. Dighton.
Sc. A. P. Bellows.

W. H. Douglass Sc.



549 a, b *Avicula pica* G.
550 a, b *lurida* G.

553 a, b *Avicula vidua* G.

551 a, b *Avicula fucata* G.
552 a, b — *glabra* G.



554 a, b *Avicula nigra* G.
555 *Melagrina margaritifera* Lam.
556 a, b *Perna nana* G.

557 a, d *Perna eremita* G.
558 a, b — *terre* G.

559 a, b *Perna argillacea* G.
560 a *Arca sobria* G.
561 a *Mytilus tuberculatus* G.

Drawn by A. A. Gould,
J. Doughton,
S. J. F. Bellows.

W. H. Douglass, Sc.



562 a *Mytilus* *areolatus* G.
563 a *Mytilus* *lucorum* G.

564 a *Mytilus* *peruvianus* G.
565 a *Mytilus* *divaricatus* G.
566 a *Mytilus* *algeus* G.

567 a *Mytilus* *rossulus* G.
568 a *Gaimardia* *trapesina* G.



Fig. 1. a, b. Pecten caurinus. d.
Fig. 2. a, c. Pecten loricatus. d.
Fig. 3. a, c. Pecten lotus. d.

Drawn by J. F. Bollons.

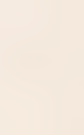
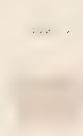
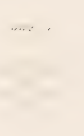
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533 a. Lima Douglasi Chem

535 a. b. Ostrea merdax G.
536 a. b. - circumscissa G.

537 a. b. Ostrea glomerata G.



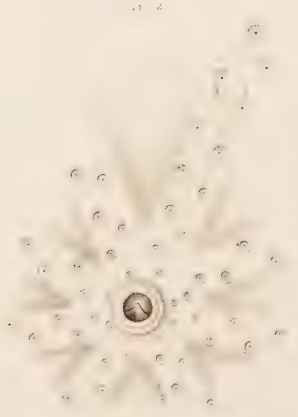
578 a b *Ostrea discolor* G.
580 a c *Crinia radiosa* G.
581 a c *Teretula palmata* G.

582 a c *Teretula caurina* G.
583 a c *Patagonica* G.
584 a b *Teretula pergaminea* G.

585 a c *Modiolus pusillus* G.
586 a c *Erycina (Kellia) quadrata* G.
587 a c *Peromia ovalis* G.



his 585 a c *Argyrops geniculata* G.
his 586 a d *Petropus maculocylindrus* G.



his 503 a r. Callisquilla nana G.

Drawn by J. Weyen.

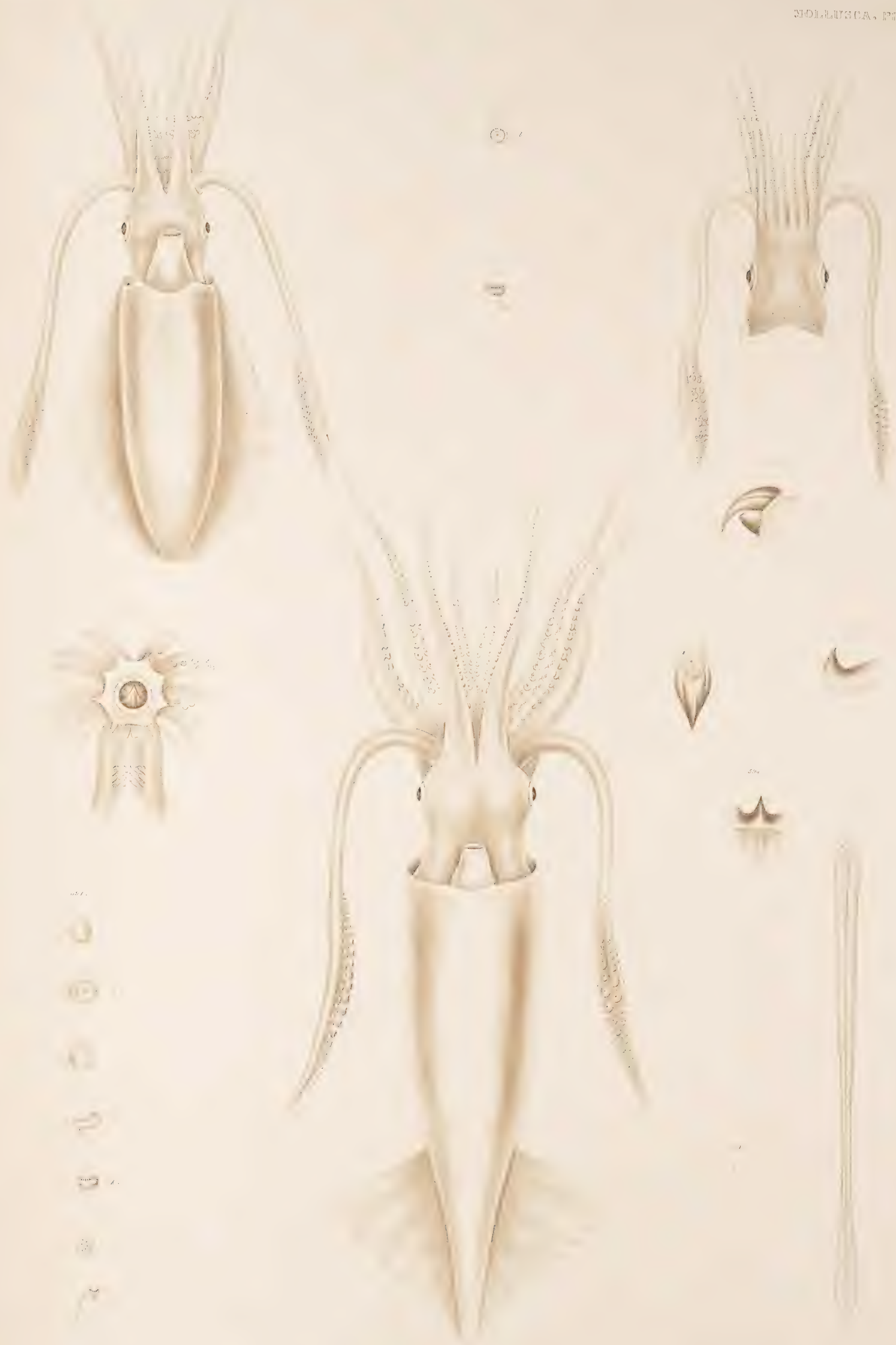
R. H. Doolittle, Jr.



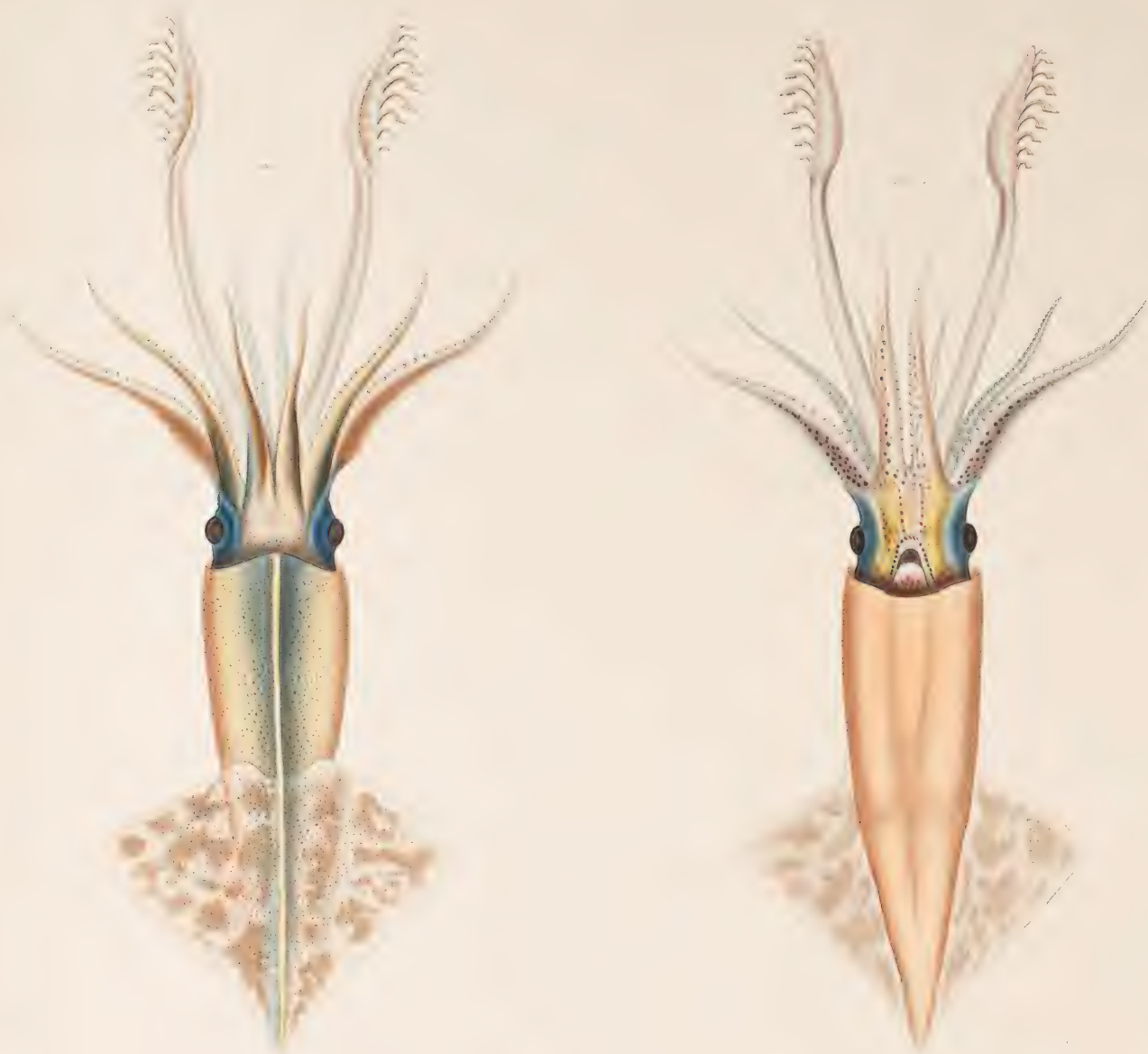
Sepia *tephros* *tephros* *tephros*
tephros *tephros* *tephros* *tephros*



590 a c *Cephalopus ornatus* G.
 591 a b ——— *pusillus* G.
 592 a b ——— *melles* G.



593 a c *Sepioteuthis arctipinnus* d.
594 a n *Omastrephes insignis* d.



595. a. *Psychroteuthis entulus* G.
596. — *Psychroteuthis hexamantus* G.

Drawn by J. Dreyer

W. H. Dall, 1880



597 a, d. *Atlanta* *primitia* G.
 598 a, c. — *cunicula* G.
 599 a, b. — *violacea* G.
 600 a, b. — *tessellata* G.

601 a, b. *Limacina* ? *cucullata* G.
 602 a, b. — *scaphoidea* G.
 603 *Hyalea* *femorata* G.
 604 a, c. — *inermis* G.

605 a, b. *Cleodora* *erecta* G.
 606 a. — *placida* G.
 607 a, b. — *minuta* G.
 608 a. — *fulcata* G.

W. H. Dall & Co.

Drawn by J. D. Dana
 J. P. Coulton
 J. Drayton.



609 *Cynthia*. G.
610 *Phallusia violacea*. G.
611 *Ascidia menestrans*. G.
612 a *Bollenia costata*. G.

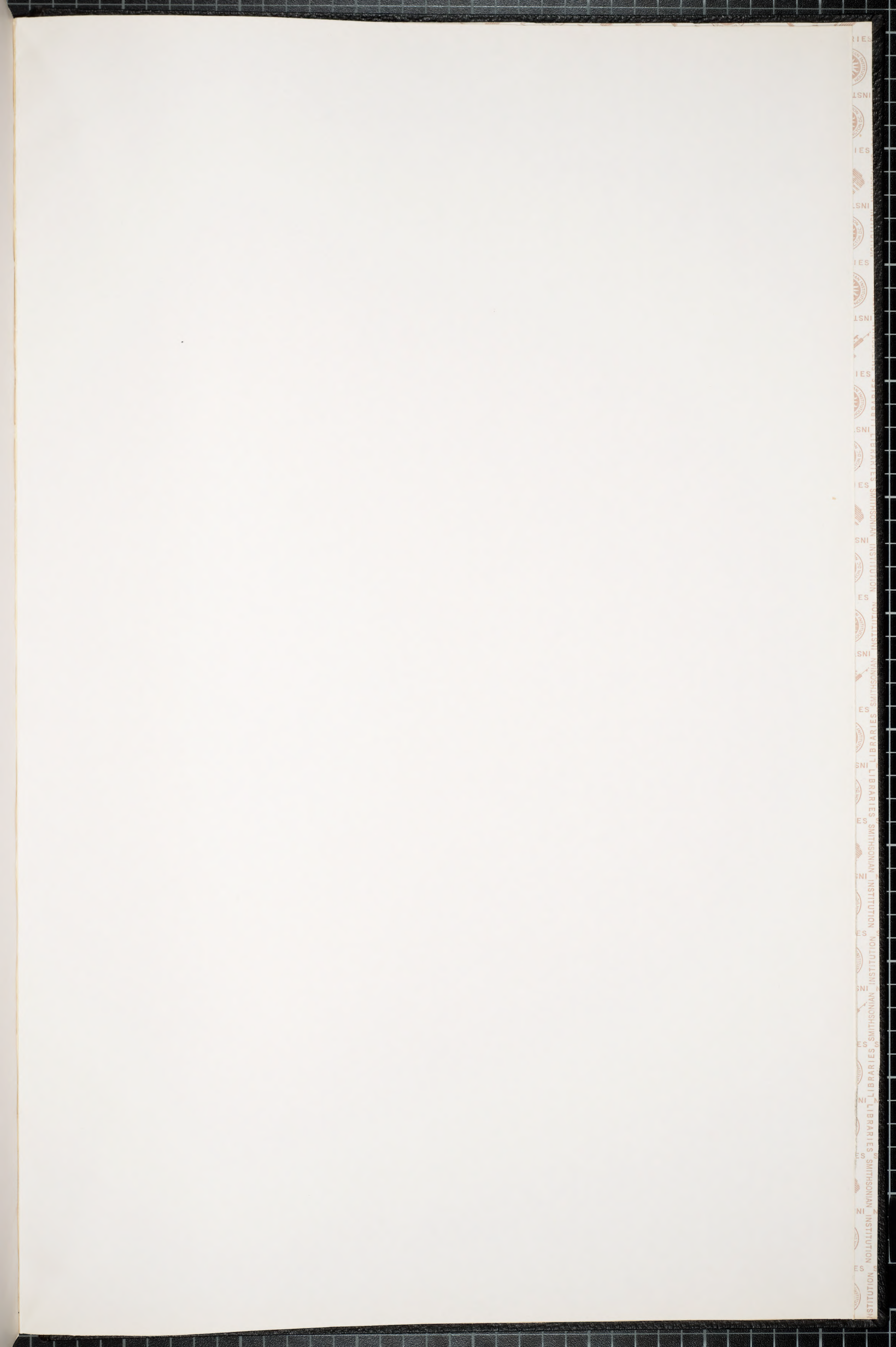
613 *Ascidian*
614 a, b *Botryllus*
615 *Eucelium arbescentis*. G.
616 a

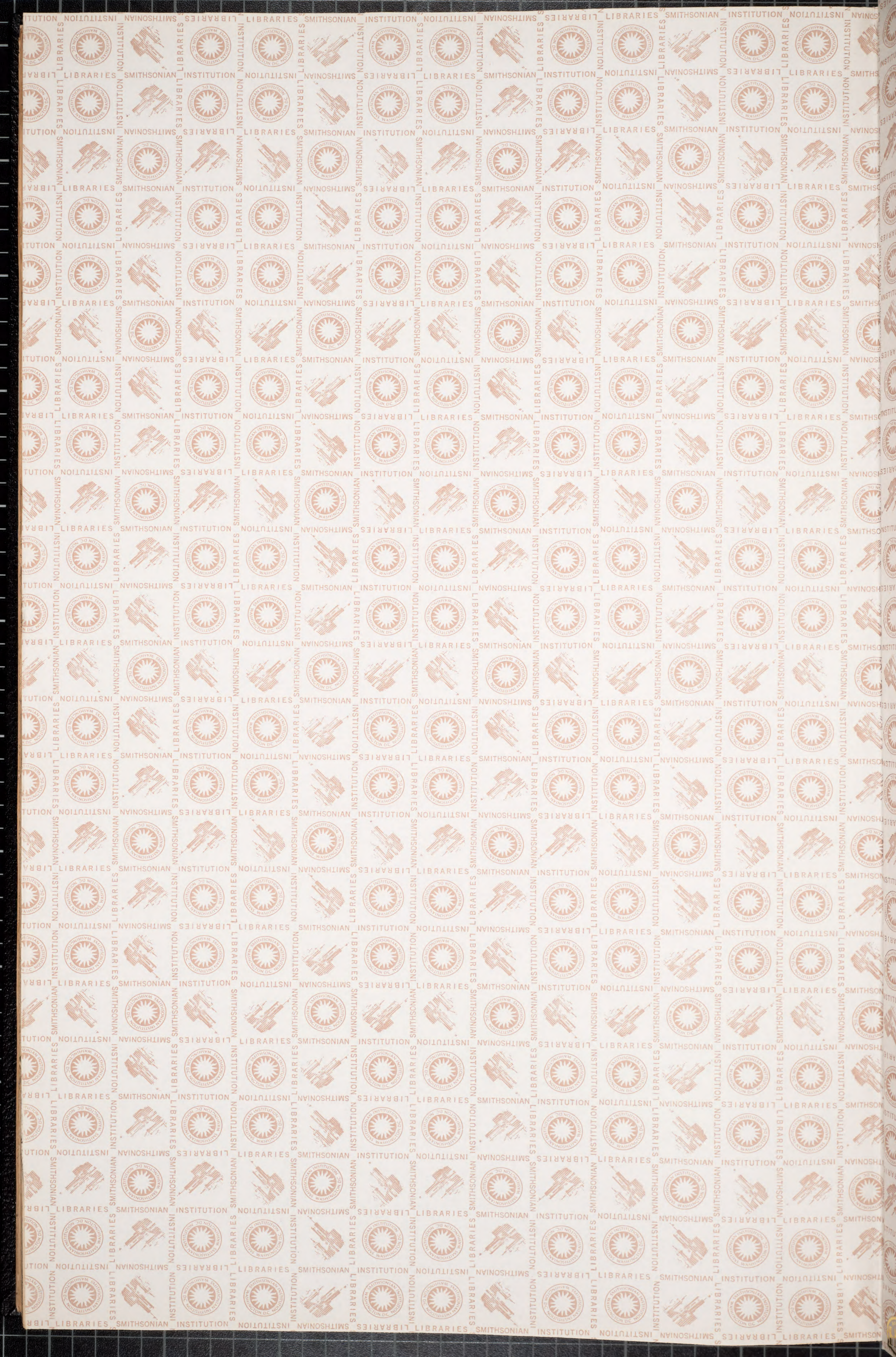
617 *Eucelium*
618 *Eucelium lividum*. G.
619 *Drepana*
620 a *Polydium*
621 a, b *Nephthys*.

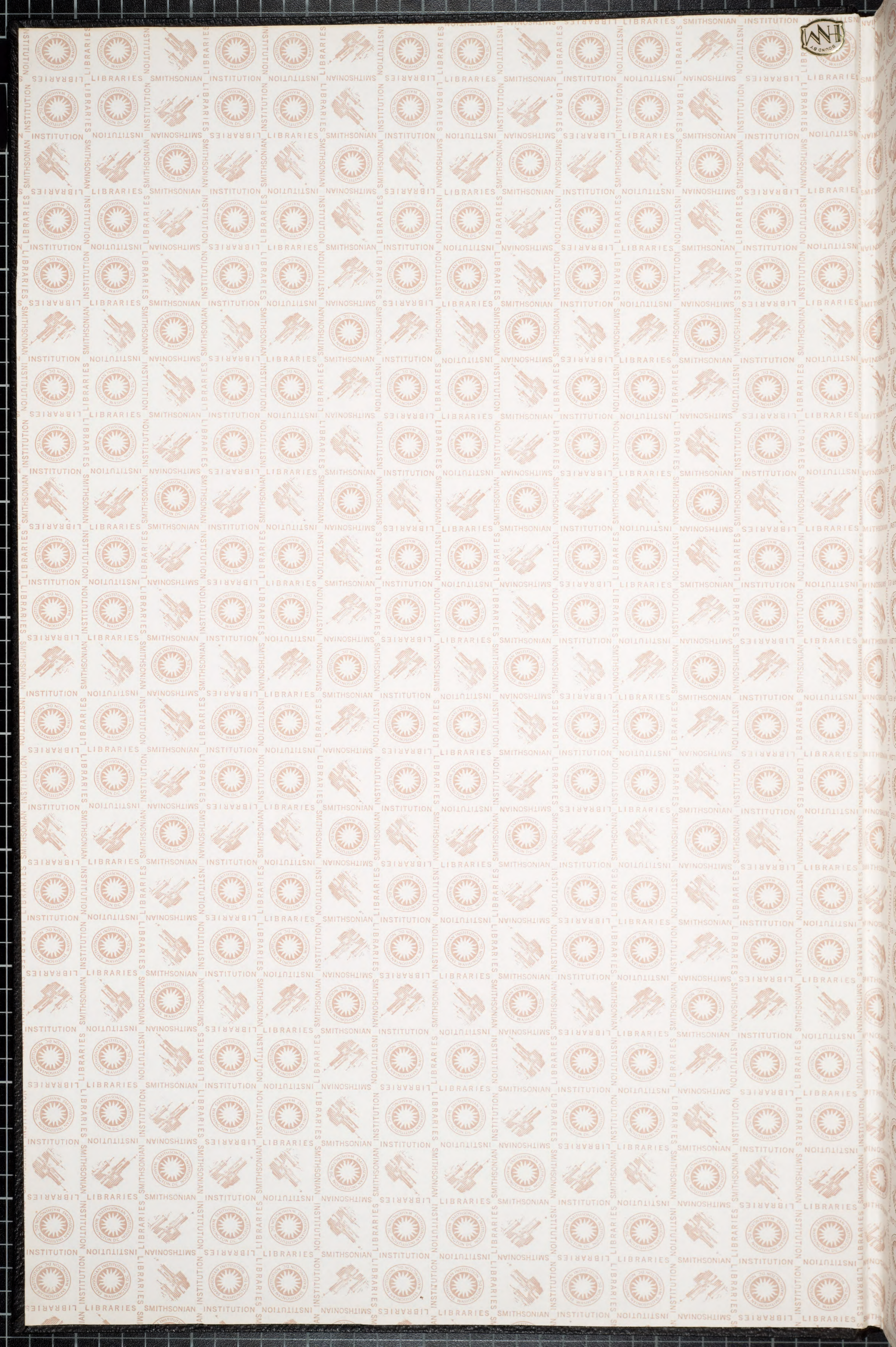
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